THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS; SHALL, COME;

Spugenta Seeds, Inc.

INCIPES, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED. OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN EDUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY LECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'S38-T8'

In Testimon Marrers, I have hereunto set my hand and caused the seal of the Plant Barrers Protection Office to be affixed at the City of Washington, D.C. this nineteenth day of July, in the year two thousand two.

Allost

BOM Jake

Commissioner
Plant Variety Protection Office
1 1911

- Continue Marting and March 1997

. Sariculture U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

eth the Privacy Act of 1974 (S.U.S.C., 552a) and

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

Application is required in order to determine if a plant variety protection certificate is to be issued

OU.S.C. 2421). Information is toold confidential until confiden

(Instructions and Information	nn collection burden statemeni	t on reve	stze)	1				
1 NAME OF OWNER (ST:411/02) SYNGENTA					2. TEMPORARY DESIGNA EXPERIMENTAL NAME	TION OR	3. VARIETY NAME	
Novartis Seeds, Inc.					X9938,J435	S38-T8		
4 ADDRESS (Street and No., or R.F.D. No., Cky, State, and ZIP Code, and Country)					S. TELEPHONE (include an	FOR OFFICIAL TISE ONLY		
P.O. Box 959 Minneapolis, MN			612-593-73 6. FAX (include area code)	PVPO NUMBER 0 0 0 0 2 3 5				
The state of the s	200.000.000	 		, , , , , , , , , , , , , , , , , , ,	612-593-78	U1	FILING DATE	
7. FINE OWNER NAMED IS NOT A PER ORGANIZATION (corporation, partners)		STA	CORPORATED GIVE 19. DATE OF INCORPORAT 19. DATE OF INCORPORAT 19.76			ЮИ	May 3, 2000	
10. NAME AND ADDRESS OF OWNER RE	PRESENTATRICIST TO SERVIC IN TUR	<u> </u>			1976	~-	0	
(67:4 1/63) Singenta C. Thorne Wevertis Seeds, P.O. Box 949 Washington, Iowa	Inc.				, as papersy		FILING AND EXAMINATION FEES: REDATE MOUS 20 CERTIFICATION FEE: CERTIFICATION FEE: DATE (0/14/02	
11 TELEPHONE (Include area code)	12. FAX (Include area code)		13. E_MA	rt.		14, CRO	P KIND (Common Name)	
319-653-2181	319-653-4609)	Johnc.T	c.Tharne@seeds.novartis.com Soybean				
15 GENUS AND SPECIES NAME OF CROP		-		WILY NAME (Bolanical) 17. IS THE VARIETY A FIRST GENERATION				
Glycine max	•		Legum	Jminosae ☐ YES ☑ MO				
18. CHECK APPROPRIATE BOX FOR EACH reverse) a. [X] Exhibit A. Origin and Breeding b. [X] Exhibit B. Statement of Distinct c. [X] Exhibit C. Objective Description d. [] Exhibit D. Additional Description	History of the Variety mess I of Variety	nstructions		CERTIFIED S	EED7 See Section 83(a) of ES (IV 755°, answer kerrs 20 and 21 below) WER SPECIFY THAT SEED O ONS?	the Plant Va	CIETY BE SOLD AS A CLASS OF micty Protection Act) CIX NO (II "no," go to incer ZZ) LIETY BE LIMITED AS TO NUMBER	
e. 🔀 Exhibit E. Statement of the Bas (. 🔀 Voucher Sample (2,500 wishle u	is of the Owner's Ownership intrested seeds or, for tuber propagated	d varieties	1					
verification that tissue culture wirepository) g. Filing and Examination Fee (IZ States" (Mail to the Plant Variety	xbfc :	21. IF TYES TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? GERTIFIED CERTIFIED						
22. HAS THE VARIETY (INCLUDING ANY HA FROM THIS VARIETY BEEN SOLD, DISP OTHER COUNTRIES?	RVESTED MATERIAL) OR A HYBRIO : OSEO OF, TRANSFERRED, OR USEO	PROOUCE IN THE U	D . S. OR	ZJ. IS THE VARIET PROPERTY RI	Y OR MY COMPONENT OF GHT (PLM) BREEDER'S RIG	THE VARIE HT OR PAT	TY PROTECTED BY INTELLECTUAL	
TYES FYES YOU MUST PROVIDE THE DATE					YES NO FYES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse)			
24. The owners declare that a viable sample of for a luber propagated variety a lissue cutu. The undersigned owner(s) is(ere) the ownered is ontided to protection under the providence of that false represents that false represents the control of that false represents the providence of that false represents the providence of that false represents the providence of the p	re will be deposited in a public reposite c of this sexually reproduced or tuber pr tions of Section 42 of the Plant Variety	ory and ma ropegated Protection	sintained for t plant variety, Act.	te duration of the o	ortificate,			
SIGNATURE OF OWNER	m			SIGNATURE OF OV	YNER			
John C. Thorne	•		, l	IAME (Please print	or type)			

CAPACITY OR TITLE

DATE

Director, Soybean Breeding 3.7-470 (5-98) designed by the Plant Variety Protection Office with WordPedect 6.0a. Replace

DATE

CAPACITY OR TITLE

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,45 applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Varied Forecastion Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificates. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Yelephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

18a, Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant companisons which clearly indicate distinctness
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97, 103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
 - U.S. Patent Application Contemplated.
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213. Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to exercise 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other espect of this collection of information, including isaggestions for reducing this burden, to Department of Agriculture, Clearance Officer, ORM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1895, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the besis of race, color, national origin, sex, religion, age, disability, political befols, and marital or familial status. (Mod all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotage, etc.) should contact the USDA Office of Communications at (202) 720-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDO). USDA is an equal opportunity employer.

FT 420.66.081 obtained by the Open Vacion Revention Office with WhotParland G.Ob., Replaces STD 470 (07-96) which is obsolute

EXHIBIT A

Origin and Breeding History of S38-T8

In the summer of 1992 the Novarus Seeds, Inc. (formerly Northrup King Co.) breeding group at St. Joseph, IL, made the cross 'S 35-35' x 'S 46-44' from which the variety S38-T8 is derived. S 35-35 and S 46-44 are commercial cultivars marketed by Novarus Seeds, Inc.

The F1 and F2 generations were grown at the Novartis Seeds, Inc., Research Center near Kekaha, Kauai, HI in the winter of 1992-93. The F3 generation was grown at St. Joseph in the summer of 1993; the F4 and F5 in Kekaha in the winter of 1993-94; and the F6 at St. Joseph in the summer of 1994. The F2 through F5 generations were advanced using a modified system of single seed descent. Single F6 plants were harvested in the fall of 1994 and threshed individually. The progeny from these plants were yield tested in a preliminary yield trial in the summer of 1995. One of these, designated J435736, was chosen for advancement. J435736 was tested in extensive replicated trials in the central and mid-southern United States from 1996 through 1999 and found to perform well compared to other late Maturity Group 3 varieties. It was tested in the greenhouse at the Novartis-Seeds, Inc. Research Center at Bay, AR, for resistance to Phytophthora sojae and found to have the Rps1-c gene for resistance. It was also tested in the greenhouse at Bay for resistance to Races 3 and 14 of Heterodera glycines and found to be resistant to Race 3 and moderately resistant to Race 14. It was also found to have purple flowers, tawny pubescence, brown pod walls, and seed with yellow seed coats and black hila (may contain up to 2% other hilum color). During 1999 it was tested under the experimental designation X9938, and based on its yield superiority and disease resistance, it was released in 1999 as S38-T8.

During the winter of 1997-98, 2 lb. of S38-T8 was rogued for hilum color and planted at Kekaha. This increase was rogued for flower, pubescence, and pod color, and bulk harvested. This seed was planted near the Novartis Seeds Research Center at Washington IA in the summer of 1998. This increase was rogued carefully at flowering and maturity, and any off type plants were removed. It was then harvested to produce Breeder Seed.

Foundation seed of S38-T8 was produced by Novartis Seeds, Inc. in the summer of 1999 and found to meet Novartis Seeds, Inc. standards for Foundation Seed.

S38-T8 is uniform and stable within a purity level of 99% (98% for hilum color). During the five years of testing and three cycles of seed increase, we have observed no variants. Any off-type plants removed from increase fields were assumed to have arisen from admixture or out-crossing. Varietal purity will be maintained using progeny rows as needed for the life of the variety.

Exhibit B

Statement of Distinctness for the Variety S38-T8

Soybean variety S38-T8 is most like the varieties S 35-35, S 33-P2, and Pioneer Brand 93B82. It can be differentiated from S 35-35 on the basis of pod color. S38-T8 has brown pods while S 35-35 has tan pods. S38-T8 can be differentiated from S33-P2 on the basis of flower and pubescence color. S38-T8 has purple flowers and tawny pubescence while S33-P2 has white flowers and light tawny pubescence. S38-T8 can be differentiated from 93B82 on the basis of pubescence color. S38-T8 has tawny pubescence while 93B82 has light tawny pubescence.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY

SOYBEAN (Glycine max L.)

		WARIETY NAME
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
	·	S38-T8
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Cod	e)	FOR OFFICIAL USE ONLY
		200000235
Choose the appropriate response which characterizes the var in your answer is fewer than the number of boxes provided,		
1. SEED SHAPE:	lacksquare	
2		
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)		(L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)		
1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebso	y';'Gasoy 17'} Intermed	iate to Shiny
4. SEED SIZE: (Mature Seed)		
1 5 Grams per 100 seeds		
5. HILUM COLOR: (Mature Seed)		
6 1 = Buff 2 = Yellow 3 = Brown	l = Gray 5 = Imperfect Bla	ck 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		
1 = Yellow 2 = Green		
7. SEED PROTEIN PEROXIDASE ACTIVITY:		
2 1 = Low 2 = High		
8. SEED PROTEIN ELECTROPHORETIC BAND:		
1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)		
9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis') 2 = Green with 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; '	bronze band below cotyledons ("Coker Hampton 266A")	Noodworth'; 'Tracy')
10. LEAFLET SHAPE:	·	
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)	

11. LEAF	LET SIZE:	
2	1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')	
12. LEAF	COLOR.	
12. LEAF		
2	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')	
		
13. FLOW	VER COLOR:	
2	1 = White 2 = Purple 3 = White with purple throat	
14. POD 0	COLOR:	
2	1 = Tan 2 = Brown 3 = Black	
15. PLAN	T PUBESCENCE COLOR:	
2	1 = Gray 2 = Brown (Tawny)	
16. PLAN	T TYPES:	
	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton')	
[2]	3 = Bushy ('Gnome'; 'Govan')	
17. PLAN	T HABIT:	
3	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	
18. MATU	RITY GROUP:	· · ·
6	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X	
19. DISEA	SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
BACT	TERIAL DISEASES:	
	Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
	Bacterial Blight (Pseudomonas glycinea)	
	Wildfire (Pseudomonas tabaci)	
لننا FUNG	AL DISEASES:	
	Brown Spot (Septoria glycines)	
	Frogeye Leaf Spot (Cercospora sojina)	
	Race 1 Race 2 Race 3 Race 4 Race 5 1 Other (Specify)	Daca(a
	Target Spot (Corynespora cassiicola)	<u> 1100</u> 0(S
	Downy Mildew (Peronospora trifoliorum var. manshurica)	
	Powdery Mildew (Microsphaera diffusa)	
1	Brown Stem Rot (Cephalosporium gregatum)	
	Stem Canker (Diaporthe phaseolorum var. caulivora)	

19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) (Continued)									
FUNGAL DISEA	SES: (Continued)								
Pod and S	tem Blight (Diaporthe phaseolorum var; sojae)								
Purple Seed Stain (Cercospora kikuchii)									
Rhizocton	ia Root Rot <i>(Rhizoctonia solani)</i>								
Phytophth	ora Rot <i>(Phytophthora megasperma var. sojae)</i>	· .							
2 Race 1	Race 2 2 Race 3 1	Race 4 Race 5	Race 6 2 Race 7						
Race 8	Race 9 Other (Specify)								
ليسية									
VIRAL DISEASE									
	: (Tobacco Ringspot Virus)								
Yellow Mo	saic (Bean Yellow Mosaic Virus)								
Cowpea M	osaic (Cowpea Chlorotic Virus)								
Pod Mottle	e (Bean Pod Mottle Virus)								
Seed Mott	le (Soybean Mosaic Virus)								
NEMATODE DIS	EASES:								
Soybean C	Soybean Cyst Nematode (Heterodera glycines)								
Race 1	Race 2 2 Race 3	Race 4 2 Other (Specify) Race 14						
Lance Nen	Lance Nematode (Hoplolaimus Colombus)								
Southern F	Root Knot Nematode (Meloidogyne incognita)								
Northern F	Root Knot Nematode (<i>Meloidogyne Hapla)</i>								
Peanut Ro	ot Knot Nematode (Meloidogyne arenaria)								
	Nematode (Rotylenchulus reniformis)								
	ISEASE NOT ON FORM (Specify):		·						
L	SEASE NOT ON FORM (Specify).		-						
20. PHYSIOLOGICAL	RESPONSES: (Enter 0 = Not Tested; 1 = Susc	eptible; 2 = Resistant)							
1 Iron Chlore	osis on Calcareous Soil								
Other (Specify)									
21. INSECT REACTION	N: (Enter 0 = Not Tested; 1 = Susceptible; 2 =	Resistant)							
[]	ean Beetle (Epilachna varivestis)								
	f Hopper (Empoasca fabae)								
	cify)								
22. INDICATE WHICH	VARIETY MOST CLOSELY RESEMBLES TH	AT SUBMITTED,	·						
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY						
Plant Shape	S46-44	Seed Coat Luster	101101						
Leaf Shape	\$33-P2	Seed Size	AG4401						
Leaf Color	\$35-35	Seed Shape	\$46-44						
Leaf Size	S33-P2	Seedling Pigmentation	\$46-44						
FORM LMGS-470-57 (2	2-82)		Page 3 of 4						

<u>2000</u>00235

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFL	LEAFLET SIZE		SEED CONTENT		NO.
MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oi:	G/100 SEEDS	SEEDS/ POD
128	3.3	98	7	11	41.5	20.3	14.7	
130	4.8	100	7	12	43 4	10.7	45.0	:
	DAYS MATURITY 128	DAYS LODGING SCORE 128 3.3	DAYS LODGING PLANT SCORE HEIGHT 128 3.3 98	DAYS LODGING PLANT LEAFL CM Width 128 3.3 98 7	DAYS LODGING SCORE PLANT LEAFLET SIZE CM Width CM Length 128 3.3 98 7 11	DAYS LODGING PLANT LEAFLET SIZE SEED COMMATURITY SCORE HEIGHT CM Width CM Length % Protein 128 3.3 98 7 11 41.5	DAYS HODGING PLANT HEIGHT CM Width CM Length % Protein % Oil 128 3.3 98 7 11 41.5 20.3	DAYS HODGING SCORE PLANT HEIGHT CM Width CM Length % Protein % Oil SEEDS 128 3.3 98 7 11 41.5 20.3 14.7

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

REPRODUCE LOCALLY. Include form number and date on all reproductions.	FORM.APPROVED - OMB N	
AGRICULTURAL MARKETING SERVICE	1974 (5 U.S.C. 65Za) and the Pap	e in accordance with the Privacy Act crwork Reduction Act (PRA) of 1995
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE	1 · ·	
EXHIBIT E	certificate is to be issued (7 U.S.O	determine if a plant variety protection. 2421). Information is held confident
STATEMENT OF THE BASIS OF OWNERSHIP	until certificate is issued (7 U.S.C.	2426).
1. NAME OF APPLICANT(S)	Z. TEMPORARY DESIGNATION	3. VARIETY NAME
	OR EXPERIMENTAL NUMBER	-
4/1/02)		
Syngenta Novatis Seeds, Inc.		000 -0
		S38-T8
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)
P.O. Box 959	612-593-7333	612-593-7801
Minneapolis, MN 55440	7. PVPO NUMBER	075-392-1901
, names posses, nitro so the	200	000235
The state of the s		
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate in	plock. If no, please explain.	X YES NO
	· · · ·	
		·
O. J. J. C. as Endistry as assessed in U.S. astignatural C. based	.7	
9. Is the applicant (individual or company) a U.S. national or U.S. based company If no, give name of country	′•	X YES NO
11 10, 910		
10. Is the applicant the original breeder? If no, please answer the following:		X YES NO
	i	<u> </u>
 a. If original rights to variety were owned by individual(s): is (are) the original breeder(s) a U.S. national(s)? If no, give name of c 	ountry	· ·
is fals) the drighter bredder(s) a 0.5 And helps. In he, give heme of c		
	ŕ	
to the state of states as a constant course account by a second size		YES NO
 b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of course. 	intry	
is the original stocker, state and a series of great state of of		
11. Additional explantion on ownership (If needed, use reverse for extra space):		
		-
LEASE NOTE:		
the control of the co	as of the following criteria:	· · · · · · · · · · · · · · · · · · ·
lant variety protection can be afforded only to owners (not licensees) who meet o	ne of the following circena.	~
. If the rights to the variety are owned by the original breeder, that person must	be a U.S. national, national of a U	POV member country, or national
of a country which affords similar protection to nationals of the U.S. for the sar		
and the second s		hall S based owned by
If the rights to the variety are owned by the company which employed the originationals of a UPOV member country, or owned by nationals of a country which	affords similar protection to nation	inals of the U.S. for the same
genus and species.	Bijorda animai protection to hate	
. If the applicant is an owner who is not the original breeder, both the original bre	eder and the applicant must meet	one of the above criteria.
he original breeder may be the individual or company who directed final breed	ing. See Section 41(a)(2) of the	Plant Variety Protection Act for
ne original breeder may be the individual or company who directed linal breed efinition.	ing. See Section 4 Harrer of the	
ublic reporting burden for this collection of information is estimated to average 10 minutes per response, incl	luding the time for reviewing instructions, se	erching existing data sources, gathering and
ambaining the data needed, and completing and reviewing the conection of information. Sent comments rega- pgestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 1630, J	ande L. Watter building, massington, o.c.	

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